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<u>REMARKS</u>

Specification Objections

The disclosure stands objected for failing to define the abbreviations "PS", "PBT", and "PET". However, Applicants respectfully submit that these abbreviations are well known to one of skill in the art and represent, respectively, polystyrene, polybutylene terephthalate, and polyethylene terephthalate as depicted at page A-12 of *Modern Plastics Encyclopedia* '99, Issue Volume 75, Number 12, Mid-November 1998. See attached. As a result, Applicants respectfully submit that these objections should be withdrawn.

Claim Rejections Under 35 U.S.C. §101 and 112, second paragraph

Claims 1-12 stand rejected under 35 U.S.C. §112, second paragraph, as allegedly being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Particularly, the Action alleges that:

- 1) "characterized in that" in claims 1-12 is a relative term which renders the claim indefinite;
- 2) "intrinsically" is unclear in claim 1;
- 3) "difficult" is a relative term in claim 1 which renders the claim indefinite;
- 4) "the plastics system" has insufficient antecedent basis in claims 4 and 8;
- 5) "retained in" as used in claim 5 is unclear;
- 6) "the light sensitive pigments" has insufficient antecedent basis in claim 8;
- 7) providing for the use of laser-markable plastics in claim 11 is unclear and is not a proper process claim; and
- 8) "high-temperature-resistant plastic" in claim 2 is a relative term which is indefinite.

With respect to rejection grounds 4) and 7), claims 4, 8, and 11 have been amended to obviate these rejections. As such, Applicants respectfully request that these rejections be withdrawn.

Regarding the rejection grounds 1-3, 5-6, and 8, Applicants respectfully submit that the Action has failed to provide any evidence (e.g., affidavit, other patents) that the ordinary artisan would be unable to readily ascertain the metes and bounds of the claimed invention. As such, there is no prima facie case of indefiniteness for the claims subject to rejection grounds 1-3, 5-6, and 8.

Furthermore, the primary purpose of the definiteness requirement is that the claim language is clear so the public is informed of the boundaries of what constitutes infringement of the patent (M.P.E.P. §2173). The claims meet this standard by defining the subject matter with a

reasonable degree of particularly and distinctness (M.P.E.P. §2173.02) by specifying the plastics and materials comprised therein. Thus, the ordinary artisan can readily ascertain the metes and bounds of the claimed invention. If the scope of the subject matter embraced by the claims is clear, and if Applicants have not otherwise indicated that they intend the invention to be of a scope different from that defined in the claims, than the claims comply with 35 U.S.C. §112, second paragraph (M.P.E.P. §2173.04).

Consequently, because the claims are sufficiently definite, Applicants respectfully request that these rejections be withdrawn.

Claim Rejections Under 35 U.S.C. §103(a)

Claims 1-12 stand rejected as allegedly being unpatentable over WO 95/30716 (WO) in further view of EP 0 367 629 (EP). The Action admits WO does not disclose laser-markable plastics comprising color pigments. In addition, the Action alleges that EP discloses that plastics may include pigment. The Action concludes that it would be obvious to employ the color pigments of EP in the laser-markable plastics of WO employs light-sensitive pigments.

However, Applicants respectfully submit that the Office has the burden to establish a prima facie case of obviousness. What is more, the mere fact that references <u>can</u> be combined or modified does not render the resultant combination prima facie obvious unless the prior art also suggests the desirability of the combination. See *In re Mills*, 916 F.2d 680, 16 USPQ2d 1430 (Fed. Cir. 1990).

The Action utterly fails to provide any rationale or evidence that one of skill in the art would be motivated to combine these references. Particularly, the Action fails to cite any desirability disclosed in WO to use the color pigments of EP. Rather, WO uses metal oxides. As such, there is no desirability to combine the teachings of these references. Because the combination of references is untenable, there is no prima facie case of obviousness. As such, Applicants respectfully submit that the rejections should be withdrawn.

In view of the above remarks, favorable reconsideration is courteously requested. Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned, "VERSION WITH MARKINGS TO SHOW CHANGES MADE". If there are any remaining issues which can be expedited by a telephone conference, the Examiner is courteously invited to telephone Counsel at the number indicated below.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS

Claims 4, 8 and 11 has been amended as follows:

- 4. (Twice Amended) Laser-markable plastics according to Claim 1, characterized in that the proportion of the absorber material based on the <u>a</u> plastics system is 0.1 10% by weight.
- 8. (Twice Amended) Laser-markable plastics according to Claim 1, characterized in that the proportion of the light-sensitive pigments in the plastic is from 0 to 5% by weight, based on the a plastics system.
- 11. (Amended) Use of the laser-markable plastics according to Claim 1 as material A method for producing mouldings which are comprising marking marked with the aid of lasers laser-markable plastics according to Claim 1.

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MODERN PLASTICS

BUYERS', GUIDE

MID-NOVEMBER:1998 ISSUE VOLUME 75 NUMBER:12.

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ABBREVIATIONS

The following is a partial list of abbreviations for chemical, marketing, scientific, and technical terms that are frequently used by writers of articles in *Modern Plastics Encyclopedia*. Due to changing standards of chemical nomenclature, certain products listed here may be seen in other formats with some variation in the name.

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AAGR	average annual growth rate	EAA .	ethylene acrylic acid.
	atomic absorption spectroscopy	EB Wings	electron beam
	2 - 1 - 2007 C. T.		
	acrylonitrile-butadiene-acrylate	EBA	ethylene butyl acrylate
CABS W	acrylonitrile-butadiene-styrene copolymer	をEC in	ethyl cellulose
	acrylic acid ester rubber	ECTFE : Sign	ethylene-chlorotrifluoroethylene copolymer.
ACS	acrylonitrile-chlorinated PE-styrene	EEA.:	ethylene ethyl acrylate
	acrylonitrile-ethylene-propylene-styrene	EG (ethylene glycol
		C 4 C 11.1	ethylene-methyl acrylate
AMMA	acrylonitrile-methyl methacrylate	EMA TAX	
ANA	acrylonitrile	EMAA*	ethylene methacrylic acid.
Commercial March - Walter	antioxidant	EMAC -	ethylene-methyl acrylate copolymer
		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
MAPETA	amorphous polyethylene terephthalate 💸 🔆 🥻	EMC W	electromagnetic compatibility
APP A	atactic polypropylene	EMI.	electromagnetic interference
			elastomer modified polypropylene
	acrylic-styrene-acrylonitrile	EMPP	relasioniei inoquieo holybrobylene
WASTM 18	American Society for Testing and Materials	EnBA	ethylene normal butyl acrylate
	aluminum trihydrate	EP 1	epoxy resin, also ethylene-propylene
THE PARTY OF THE P			
AZ(O)	azodicarbonamide	EPA S	Environmental Protection Agency
BATE AND I	Bureau of Alcohol, Tobacco, and Firearms	EPDM.	ethylene-propylene terpolymer rubber
网络 人名 人名 人名 人名 人名 人名 人名 人名		EPM : 3	cethylene-propylene rubber.
	blow molding		
第BMC 分本、最多。	bulk molding compounds	EPS:	expandable polystyrene
BMI	bismaleimide	ESCR	environmental stress crack resistance
BO		ESI 🦠 🚎	ethylene-styrene copolymers
BOPP	biaxially-oriented polypropylene	ETE A STATE	engineering thermoplastic elastomers
		ETFE	ethylene-tetrafluoroethylene copolymer
	butadiene rubber		
競BS 医原理性多种	butadiene styrene rubber	ETP® PCESO	engineering thermoplastics
		EVA(C)	polyethylene-vinyl acetate
	and the second s		
漢CAB ギャーディ	cellulose acetate butyrate	EVOH	polyethylene-vinyl alcohol copolymers 🔆 🦠
CAD CAT	computer aided design	FDA	Food and Drug Administration
		FEP: 经	fluorinated ethylene propylene copolymer:
CAM	computer aided manufacturing	FPVC	flexible polyvinyl chloride
		FR TALL TO SERVE	flame retardant
CAP:	controlled atmosphere packaging	FRP	fiber reinforced plastic
	chemical blowing agent	GIM TO THE	gas injection molding
₹ CF	cresol formaldehyde	GIT	gas injection technique
₹ CF	cresol formaldehyde		
CF CFA	cresol formaldehyde chemical foaming agent	GIT GMT(P)	gas injection technique glass mat reinforced thermoplastics
CFA CFC	cresol formaldehyde chemical foaming agent chlorofluorocarbons	GIT GMT(P) GPC	gas injection technique glass mat reinforced thermoplastics gel permeation chromotography
CFA CFC	cresol formaldehyde chemical foaming agent	GIT GMT(P)	gas injection technique glass mat reinforced thermoplastics
CFA CFC CFC	cresol formaldehyde chemical foaming agent chlorofluorocarbons Code of Federal Regulations	GIT GMT(P) GPC GPPS	gas injection technique glass mat reinforced thermoplastics gel permeation chromotography general purpose polystyrene
CF CFA CFC CFR CHDM	cresol formaldehyde chemical foaming agent chlorofluorocarbons Code of Federal Regulations cyclohexanedimethanol	GIT GMT(P) GPC GPPS GRP	gas injection technique glass mat reinforced thermoplastics gel permeation chromotography general purpose polystyrene glass fiber reinforced plastics
CF CFA CFC CFR CHDM CIM	cresol formaldehyde chemical foaming agent chlorofluorocarbons Code of Federal Regulations cyclohexanedimethanol computer integrated manufacturing	GIT GMT(P) GPC GPPS GRP GTP	gas injection technique glass mat reinforced thermoplastics gel permeation chromotography general purpose polystyrene glass fiber reinforced plastics group transfer polymerization
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ABBREVIATIONS

٠.			- attail collulace	PPA	polyphthalamide
	MC		methyl cellulose methylene diphenylene diisocyanate	PPC	chlorinated polypropylene
	MDI MEKP		methyl ethyl ketone peroxide	PPE	polyphenylene ether, modified
	MF		melamine formaldehyde	ppm	parts per million
	MFI		melt flow index	PPO	polyphenylene oxide
	MIS		management information systems	PPS	polyphenylene sulfide
	MMA		methyl methacrylate	PPSU	polyphenylene sulfone
	MPE	· .	metallocene polyethylenes	PS :	polystyrene
	MPF	7	melamine-phenol-formaldehyde	PSU	polysulfone
	MPR	<i>.</i>	melt-processable rubber	PTA	purified terephthalic acid
	MRP	,	manufacturing requirement planning	PTFE	polytetrafluoroethylene
٠,	MWD		molecular weight distribution	PU	polyurethane
	NBR :		nitrile rubber	PUR	polyurethane
	NDI :		naphthalene diisocyanate	PVC	polyvinyl chloride
	NDT	آ دِ ١	nondestructive testing	PVCA	polyvinyl chloride acetate
	NR	· · ·	natural rubber	PVDA	polyvinylidene acetate
	ODP.		ozone depleting potential	PVDC	polyvinylidene chloride polyvinylidene fluoride
	OFS		organofunctional silanes	PVDF PVF	polyvinylidene lidoride
	OPET		oriented polyethylene terephthalate	PVOH	polyvinyl alcohol
	OPP :	- '	oriented polypropylene	QMC	quick mold change
	O-TPV		olefinic thermoplastic vulcanizate	RFI	radio frequency interference
	OEM		original equipment manufacturer	RHDPE	recycled high density polyethylene
	OSA		olefin-modified styrene-acrylonitrile	RIM	reaction injection molding
	PA		polyamide polyaryletherketone	RPET	recycled polyethylene terephthalate
	PAEK PAI		polyamide imide	RTD	resistance temperature detector
	PAN		polyacrylonitrile	RTM	resin transfer molding
	PB		polybutylene	RTV	room temperature vulcanizing
	PBA		physical blowing agent	SI	silicone plastic
	PBAN		polybutadiene-acrylonitrile	SAN	styrene acrylonitrile copolymer
•	PBI		polybenzimidazole	SB	styrene butadiene copolymer
	PBN		polybutylene naphthalate	SBC	styrene block copolymer
	PBS		polybutadiene styrene	SBR .	styrene butadiene rubber
	PBT		polybutylene terephthalate	SMA	styrene maleic anhydride
	PC.		polycarbonate	SMC	sheet molding compound
	PCC		precipitated calcium carbonate	SMC-C	SMC-continuous fibers
	PCD		polycarbodiimide	SMC-D	SMC-directionally oriented
	PCR .		post-consumer recyclate	SMC-R	SMC-randomly oriented
	PCT		polycyclonexylenedimethylene terephthalate	SPC ·	statistical process control statistical quality control
	PCTA :		copolyester of CHDM and PTA	SQC	structural reaction injection molding
	PCTFE		polychlorotrifluoroethylene	SRIM TA	terephthalic acid
	PCTG		glycol-modified PCT copolymer	TDI	toluene diisocyanate
	PE		polyethylene polyether block polyamide	TEO	thermoplastic elastomeric olefin
	PEBA		chlorinated polyethylene	TGA	thermogravimetric analysis
	PEC PEDT		3,4 polyethylene dioxithiophene	TLCP	thermoplastic liquid crystal polymer
	PEEK		polyetheretherketone	TMA	thermomechanical analysis
	PEI		polyether imide	TMC	thick molding compound
	PEK		polyetherketone	T/N	terephthalate/naphthalate
	PEL		permissible exposure level	TPA	terephthalic acid
	PEKEKK		polyetherketoneetherketoneketone	. TP	thermoplastic
	PEN		polyethylene naphthalate	TPE	thermoplastic elastomer
	PES		polyether suifone	TPO	thermoplastic olefins
	PET		polyethylene terephthalate	TPU	thermoplastic polyurethane
	PETG		PET modified with CHDM	TPV	thermoplastic vulcanizate
	PF		phenol formaldehyde	TS ·	thermoset
	PFA		perfluoroalkoxy resin	TWA	time-weighted average urea formaldehyde
	PI '		polyimide	UF UHMW -	ultrahigh molecular weight
	PID		proportional, integral, derivative	ULDPE	ultralow-density polyethylene
	PIBI		butyl rubber powder injection molding	UP .	unsaturated polyester resin
	PIM ·		programmable logic controller	UR	urethane
	PLC PMDI		polymeric methylene diphenylene	ÜV	ultraviolet
	I WIDI		diisocyanate	VA(C)	vinyl acetate
	PMMA ·		polymethyl methacrylate	VC	vinyl chloride
	PMP		polymethylpentene	VDC	vinytidene chloride
	PO		polyolefins	VLDPE	very low-density polyethylene
	POM		polyacetal	voc ·	volatile organic compounds
	PP		polypropylene	ZNC	Ziegler-Natta catalyst